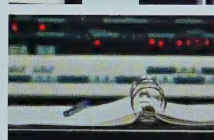
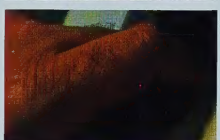
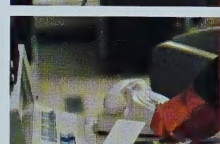
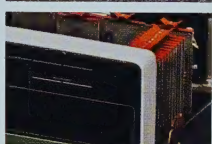


digital equipment corporation • 1969 annual report







Five-year highlights

OPERATING RESULTS

Fiscal Years ¹	Net Sales*	Income Before Taxes*	U.S. & Foreign Taxes*	Net Income*	Earnings ² Per Share
1969	87,867	17,030	7,701	9,329	1.03
1968	57,339	12,934	6,078	6,856	.78
1967	38,896	8,320	3,779	4,541	.52
1966	22,776	3,501	1,550	1,951	.24
1965	14,983	1,387	646	741	.10

FINANCIAL POSITION

Working Capital*	Stockholders' Equity*
40,458	45,317
19,756	22,691
13,954	15,707
4,665	6,363
3,288	4,366

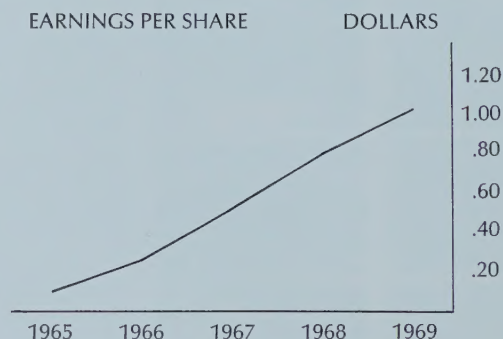
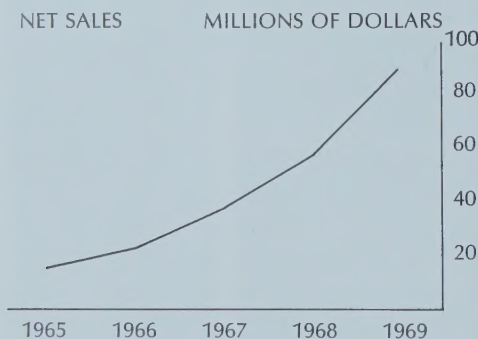
GENERAL INFORMATION

Expenditures for Research and Engineering*	Employees at Year-End
9,403	4,360
6,367	2,600
3,998	1,800
2,595	1,080
2,270	1,000

1. Fiscal year ends on Saturday nearest June 30.

2. Based on average shares outstanding after 3-for-1 split effective June 27, 1969.

*In thousands of dollars



Return on stockholders' equity — Fiscal 1969	27.4%
Return on sales — Fiscal 1969	10.6%
Number stockholders — June 28, 1969	3,586

president's letter

I am pleased to report that Digital Equipment Corporation has completed another successful year, with significant growth in both profit and volume. I feel we have made considerable progress in hiring and training personnel, establishing systems and controls, and developing new products necessary to allow continued growth. Employment around the world has increased from 2,600 in 1968 to 4,360 in 1969.

Manufacturing operations have been expanded in Maynard, Puerto Rico, Canada, and the United Kingdom. In addition, a 500,000-square-foot plant has been started in Westfield, Massachusetts, as well as a 60,000-square-foot plant in Leominster, Massachusetts, with occupancy planned for later this year.

We are particularly pleased with our manufacturing operation in Puerto Rico. After starting there just a year ago, we now have 350 employees, and are already building the majority of our modules there.

A number of advances have been made in manufacturing. Computer-controlled systems were developed for printed circuit fabrication, integrated circuit insertion, and module testing. Continued efforts toward greater automation in module production have increased the total output from Maynard and Puerto Rico to over 10,000 modules a day.

Our products continue to be very well received. I call your attention to the Products and Services Brochure included with the Annual Report. It provides a summary of our computers and computer-related products.

The PDP-10, which is our very large computer, has become one of the most popular computers for time-sharing. Since first delivery 18 months ago, over 75 machines have been installed, providing their users with high reliability, proven software, and economy.

During this year we announced a new medium-sized computer, the PDP-15. This replaces the PDP-9, which has established a record of high performance at modest cost, and its over 400 installations are being used for such applications as physics, biomedicine, and industrial control. We now have about a hundred orders for the PDP-15, even though deliveries will not start until Fall.

This year we also announced and started deliveries of our new PDP-12, which is a 12-bit computer that not only runs PDP-8 software, but also runs the interactive software of the LINC and LINC-8 computers. It allows the operator to interact directly with the computer program through the use of a keyboard and oscilloscope.

Our PDP-14 is an exciting new computer for use in machine tool control and operations where a fixed pattern of operation is used. This is a computer with an unalterable memory, which we expect will replace many large relay control panels that are used extensively in manufacturing processes. When it is first installed, the user can debug and test his program using the alterable memory of a PDP-8/L computer. When the program is working properly, a permanent, unalterable

memory is substituted. The machine can then go on doing the same thing reliably forever.

Modules continue to be an important product for both the users of our computers and the customers who use them for experimental work or developing special, computer-like devices. The K-Series modules, which are designed to be very reliable in the electrically-noisy environment of industry, have caught on particularly well this year.

The PDP-8 line of small computers continues to be a large part of our business. When we started making small computers, few people realized their potential, but now that we have over 4,500 units in the field, it appears that there are over 64 manufacturers of "small computers." Most customers, however, feel that service and manufacturing capabilities large enough to take care of their needs are more important than a new variation or two. In fact, because of the popularity of small computers now, we feel many more potential customers are conscious of them, and this has helped us sell to new areas.

We continue to invest heavily in engineering and development, and plan to announce new equipment on a regular basis in the future.



Kenneth H. Olsen
President

digital equipment corporation and subsidiaries

STATEMENTS OF INCOME

Years Ended June 28, 1969 and June 29, 1968

Thousands
(Except Per Share Data)

	1969	1968
Net sales	\$87,867	\$57,339
Cost of goods sold	45,305	28,660
Gross profit	42,562	28,679
Research and engineering expenses	9,403	6,367
Selling, general and administrative expenses	16,527	9,643
	25,930	16,010
Operating profit	16,632	12,669
Other income, net	398	265
Income before provision for U. S. and foreign income taxes	17,030	12,934
Provision for U.S. and foreign income taxes	7,701	6,078
Net income	\$ 9,329	\$ 6,856
Earnings per common share (note F)	\$1.03	\$.78

The accompanying notes are an integral part of these financial statements.

NOTES TO FINANCIAL STATEMENTS

A — The consolidated financial statements include the accounts of the parent company and all subsidiaries. The accounts of the foreign subsidiaries are included as of April 30.

B — At June 28, 1969, major classes of depreciable assets, at cost, are equipment and fixtures, \$5,629,000 and leasehold improvements, \$1,247,000. Depreciation is computed primarily on the double-declining balance method for equipment and fixtures and on the straight-line method for leasehold improvements.

C — Information with respect to the company's Qualified Stock Option Plan and the 1968 Restricted Stock Purchase Plan at June 28, 1969 and for the year then ended is as follows:

	Qualified Stock Option Plan			1968 Restricted Stock Purchase Plan		
	Shares	Option Price* Average	Aggregate (Thousands)	Shares	Option Price Average	Aggregate (Thousands)
Shares under option June 28, 1969	195,275	\$28.83	\$5,630	99,300	\$4.61	\$458
Currently exercisable	51,050	17.92	915	99,300	4.61	458
During 1969, options to purchase shares:						
Granted	41,100	53.67	2,206	158,100	4.46	705
Exercised	65,575	8.31	545	67,500	5.04	340
Canceled	11,100			16,800		
Shares reserved for options not granted at June 28, 1969	214,350			163,200		

*Fair market value on date options were granted.

During fiscal 1969, under the 1968 Employees Stock Purchase Plan, 3,096 shares of common stock were issued at \$46.58 per share (representing 85% of the fair market value at the time options were granted). At June 28, 1969, 446,904 shares of common stock have been reserved for issue under this Plan.

At June 28, 1969, there was a non-qualified option outstanding to purchase 30,000 shares of common stock at \$12.67 per share (the fair market value at the date option was granted).

D — During the two years ended June 28, 1969, changes in additional paid-in capital were as follows:

	Thousands	
	1969	1968
Balance at beginning of period	\$ 4,678	\$4,568
Amount in excess of par value received from:		
Sale of common stock (300,000 shares) ..	12,168	
Exercise of options		
(136,171 and 49,800 shares)	936	110
Amount transferred to common stock		
account in connection with 3-for-1 stock		
split on June 27, 1969	(6,096)	
Balance at end of period	<u>\$11,686</u>	<u>\$4,678</u>

Changes in retained earnings in both years resulted solely from the addition of net income.

On October 29, 1968, the stockholders approved an increase in the authorized common stock from 6,000,000 shares to 12,000,000 shares.

A 3-for-1 stock split was effected June 27, 1969, by the distribution on that date of two additional shares for each share held of record on May 23, 1969. All share and per-share figures in the accompanying financial statements have been adjusted to reflect this stock split.

E — The company has a non-contributory pension plan covering substantially all of its employees. The total estimated cost of this plan was \$321,000 in 1969 and \$220,000 in 1968 including amortization of past service costs over a twenty-year period.

F — Earnings per common share are computed on the weighted average number of shares of common stock outstanding during each year. Exercise of outstanding stock options would not have materially affected earnings per common share.

BALANCE SHEETS As at June 28, 1969 and June 29, 1968

	Thousands	
	1969	1968
ASSETS		
Current:		
Cash	\$ 1,259	\$ 974
Accounts receivable	28,696	15,489
Inventories, at lower of cost (principally first-in, first-out) or market:		
Raw materials	4,143	2,124
Work in process and finished goods	22,581	14,809
Total inventories	26,724	16,933
Prepayments and other current assets	311	166
Total current assets	56,990	33,562
Property, plant and equipment and leasehold improvements, at cost, less allowances for depreciation and amortization of \$2,966* and \$2,009* (note B)	4,780	2,916
Other assets	79	19
	<u>\$61,849</u>	<u>\$36,497</u>
LIABILITIES		
Current:		
Notes payable to banks	\$ 5,249	\$ 4,500
Accounts payable	4,096	4,321
Provision for U.S. and foreign income taxes	2,591	2,977
Accrued salaries, wages and payroll taxes	3,149	1,505
Other accrued liabilities	1,447	503
Total current liabilities	16,532	13,806
STOCKHOLDERS' EQUITY		
Common stock, par value \$1.00 per share, authorized 12,000,000 shares; issued and outstanding 9,215,971 shares and 8,779,800 shares (notes C and D)	9,216	2,927
Additional paid-in capital (note D)	11,686	4,678
Retained earnings (note D)	24,415	15,086
Total stockholders' equity	45,317	22,691
	<u>\$61,849</u>	<u>\$36,497</u>

The accompanying notes are an integral part of these financial statements.

*In thousands of dollars

digital equipment corporation and subsidiaries

STATEMENTS OF SOURCES AND USES OF FUNDS

Years Ended June 28, 1969 and June 29, 1968

	Thousands	
	1969	1968
Source of funds:		
From operations:		
Net income	\$ 9,329	\$ 6,856
Depreciation and amortization	1,206	678
Sale of common stock less related expenses	12,268	
Exercise of options to purchase common stock	1,030	127
Increase in bank loans	749	4,500
Increase in other liabilities	1,977	3,302
	<u>26,559</u>	<u>15,463</u>
Uses of funds:		
Additions to property, plant and equipment and leasehold improvements less disposals	3,072	1,907
Increase in inventories and accounts receivable	22,997	14,080
Other, net	205	15
	<u>26,274</u>	<u>16,002</u>
Increase (decrease) in cash resources	<u>\$ 285</u>	<u>(\$ 539)</u>

The accompanying notes are an integral part of these financial statements.

REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

To the Stockholders

Digital Equipment Corporation
Maynard, Massachusetts

We have examined the balance sheet of Digital Equipment Corporation and subsidiaries as at June 28, 1969 and the related statement of income and statement of sources and uses of funds for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. We previously examined and reported upon the financial statements for the year ended June 29, 1968.

In our opinion, the accompanying statements present fairly the financial position of Digital Equipment Corporation and subsidiaries at June 28, 1969 and June 29, 1968 and the results of their operations and sources and uses of funds for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

Boston, Massachusetts

July 28, 1969

Lybrand, Ross Bros. & Montgomery

BOARD OF DIRECTORS

Vernon R. Alden
Chairman of the Board
The Boston Company, Inc.

John Barnard, Jr.
General Counsel
Massachusetts Investors Trust

William H. Congleton
Senior Vice President
American Research and
Development Corporation

Arnaud de Vitry
Chairman of the Board
Technical Studies, Incorporated

William H. McLean
Assistant to the President
and Dean of the College
Stevens Institute of Technology

Kenneth H. Olsen
President
Digital Equipment Corporation

Miss Dorothy E. Rowe
Vice President and Treasurer
American Research and
Development Corporation

OFFICERS

Kenneth H. Olsen
President

W. Brewster Kopp
Vice President, Finance and
Administration

Winston R. Hindle, Jr.
Vice President, Group Manager

Stanley C. Olsen
Vice President, Group Manager

Nick J. Mazzaresse
Vice President, Group Manager

Peter J. Kaufmann
Vice President, Manufacturing

Theodore G. Johnson
Vice President, Sales

Edward A. Schwartz
Secretary

TRANSFER AGENT
AND REGISTRAR:
The National Shawmut Bank
of Boston
40 Water Street
Boston, Massachusetts

LEGAL COUNCIL:
Gaston, Snow, Motley & Holt
82 Devonshire Street
Boston, Massachusetts

CO-TRANSFER AGENT
AND CO-REGISTRAR:
Morgan Guaranty Trust Company
of New York
23 Wall Street
New York, New York

CERTIFIED PUBLIC
ACCOUNTANTS:
Lybrand, Ross Bros. & Montgomery
2 Center Plaza
Boston, Massachusetts

ANNUAL MEETING

The Annual Meeting of Shareholders will be held at 11:00 A.M., Tuesday, October 28, 1969, at the Dorothy Quincy Suite, John Hancock Mutual Life Insurance Company, 200 Berkeley Street, Boston, Massachusetts.

digital is worldwide

DOMESTIC SALES

NORTHEAST

REGIONAL OFFICE:
15 Lunda Street, Waltham, Massachusetts 02154
Telephone 891-1030 & 1033

WALTHAM OFFICE:
15 Lunda Street, Waltham, Massachusetts 02154
Telephone 891-6310 & 6315

CAMBRIDGE/BOSTON OFFICE:
899 Main Street, Cambridge, Massachusetts 02139
Telephone (617)-491-6130 TWX: 710-320-1167

ROCHESTER OFFICE:
130 Allens Creek Road
Rochester, New York 14618
Telephone (716)-461-1700 TWX: 510-253-3078

CONNECTICUT OFFICE:
1 Prestige Drive, Meriden, Connecticut 06450
Telephone: (203)-237-8441 TWX: 710-461-0054

CORPORATE HEADQUARTERS

DIGITAL EQUIPMENT CORPORATION
146 Main Street, Maynard, Massachusetts 01754
Telephone: From Metropolitan Boston: 646-8600
Elsewhere: (617) 897-5111
TWX: 710-347-0212 Cable: Digital Mayn. Telex: 94-8457

MANUFACTURING PLANTS

MAYNARD
146 Main Street, Maynard, Massachusetts 01754
Telephone (617) 897-5111

CANADA
150 Rosamond Street
Carleton Place, Ontario, Canada
Telephone (613) 257-2615

PUERTO RICO
P.O. Box 106
Industrial Sub-Division, Lot 8-A
San German, Puerto Rico
Telephone (809) 892-1231

Under construction:

WESTFIELD
Airport Industrial Park
Buck Pond Road
Westfield, Massachusetts 01085

LEOMINSTER
Tolman Avenue
Leominster, Massachusetts 01453

MID-ATLANTIC — SOUTHEAST

REGIONAL OFFICE:
U.S. Route 1, Princeton, New Jersey 08540
Telephone: (609)-452-9150 TWX: 510-685-2338

NEW JERSEY OFFICE:
Suite #1
71 Grand Avenue, Palisades Park, New Jersey 07650
Telephone: (201)-941-2016 or (212)-594-6955
TWX: 710-992-8974

NEW JERSEY OFFICE:
1259 Route 46, Parsippany, New Jersey 07054
Telephone: (201)-335-3300 TWX: 710-987-8319

PRINCETON OFFICE:
Route One and Emmons Drive,
Princeton, New Jersey 08540
Telephone: (609)-452-2940 TWX: 510-685-2337

LONG ISLAND OFFICE:
1919 Middle Country Road
Centereach, L.I., New York 11720
Telephone: (516)-585-5410 TWX: 510-228-6505

PHILADELPHIA OFFICE:
1100 West Valley Road, Wayne, Pennsylvania 19087
Telephone: (215)-687-1405 TWX: 510-668-4461

MID-ATLANTIC — SOUTHEAST (cont.)

WASHINGTON OFFICE:
Executive Building
7100 Baltimore Ave., College Park, Maryland 20740
Telephone: (301)-779-1100 TWX: 710-826-9662

CHAPEL HILL OFFICE:
P.O. Box 1186, Chapel Hill, North Carolina 27514
Telephone: (919)-929-4095 TWX: 510-920-0763

HUNTSVILLE OFFICE:
Suite 41 — Holiday Office Center
3322 Memorial Parkway S.W., Huntsville, Ala. 35801
Telephone: (205)-881-7730 TWX: 810-726-2122

ORLANDO OFFICE:
Suite 232, 6990 Lake Ellenor Drive, Orlando, Fla. 32809
Telephone: (305)-851-4450 TWX: 810-850-0180

ATLANTA OFFICE:
Suite 116, 1700 Commerce Drive, N.W.
Atlanta, Georgia 30318
Telephone: (404)-351-2822 TWX: 810-751-3251

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5731 Lyons View Dr., S.W., Knoxville, Tenn. 37919
Telephone: (615)-588-6571 TWX: 810-583-0123

CENTRAL

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ANN ARBOR OFFICE:
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15016 Minnetonka Industrial Road
Minnetonka, Minnesota 55343
Telephone: (612)-935-1744 TWX: 910-576-2818

CENTRAL (cont.)

CLEVELAND OFFICE:
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Telephone: (216)-946-8484 TWX: 810-427-2608

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115 Progress Parkway
Maryland Heights, Missouri 63042
Telephone: (314)-872-7520 TWX: 910-764-0831

DAYTON OFFICE:
3101 Kettering Blvd., Dayton, Ohio 45439
Telephone: (513)-299-7377 TWX: 810-459-1676

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Telephone: (214)-638-4880

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3417 Milam Street, Suite A, Houston, Texas 77002
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WEST

WESTERN OFFICE:
560 San Antonio Road, Palo Alto, California 94306
Telephone: (415)-328-0400 TWX: 910-373-1266

ANAHEIM OFFICE:
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Telephone: (714)-776-6932 or (213)-625-7669
TWX: 910-591-1189

WEST LOS ANGELES OFFICE:
2002 Cotner Avenue, Los Angeles, California 90025
Telephone: (213)-479-3791 TWX: 910-342-6999

SAN FRANCISCO OFFICE:
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2305 South Colorado Blvd., Suite #5
Denver, Colorado 80222
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SEATTLE OFFICE:
1521 - 130th N.E., Bellevue, Washington 98004
Telephone: (206)-454-4058 TWX: 910-443-2306

SALT LAKE CITY OFFICE:
431 South 3rd East, Salt Lake City, Utah 84111
Telephone: (801)-328-9838 TWX: 910-925-5834

INTERNATIONAL SALES

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CANADIAN OFFICE:
Digital Equipment of Canada, Ltd.
150 Rosamond Street, Carleton Place, Ontario
Telephone: (613)-257-2615 TWX: 610-561-1651

OTTAWA OFFICE:
Digital Equipment of Canada, Ltd.
120 Holland Street, Ottawa 3, Ontario
Telephone: (613)-725-2193 TWX: 610-562-8907

TORONTO OFFICE:
Digital Equipment of Canada, Ltd.
230 Lakeshore Road East, Port Credit, Ontario
Telephone: (416)-278-6111 TWX: 610-492-4306

MONTREAL OFFICE:
Digital Equipment of Canada, Ltd.
640 Cathcart Street, Suite 205, Montreal, Quebec
Telephone: (514)-861-6394 TWX: 610-421-3690

EDMONTON OFFICE:
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COLOGNE OFFICE:
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Telephone: 52 21 81 Telex: 841-888-2269
Telegram: Flip Chip Koeln

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Cable: Digital Stockholm

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Telex: 33615

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Cable: Digital, Sydney

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Telephone: 69-6142 Telex: AA30700

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643 Murray Street
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Digital Equipment Australia Pty. Ltd.
139 Merivale Street, South Brisbane
Queensland, Australia 4101
Telephone: 44047 Telex: AA40616

JAPAN

TOKYO OFFICE:
Rikei Trading Co., Ltd. (sales only)
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No. 18-14, Nishishimbashi 1-chome
Minato-Ku, Tokyo, Japan
Telephone: 5915246 Telex: 7814208

Digital Equipment Corporation International
(engineering and services)
Fukuyoshicho Building, No. 2-6, Roppongi 2-Chome,
Minato-Ku, Tokyo
Telephone No.: 585-3624 Telex No.: 0242-2650

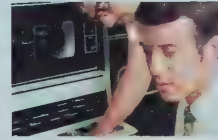
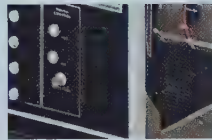
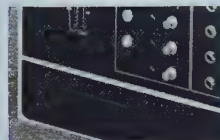
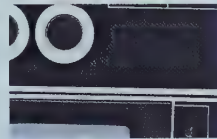
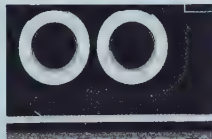
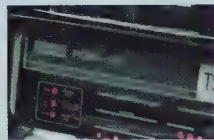
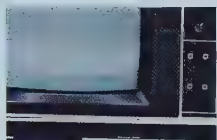
introduction

Digital Equipment Corporation's growth in twelve years can be measured in a number of ways. Production space has increased from a modest eight thousand square feet to over one million square feet, with 560,000 square feet under construction. The original nucleus of three employees has grown to a staff of 4,300 in the United States and ten foreign countries.

The diversity of markets which DEC now penetrates is probably a more significant gauge. Physics, biomedicine, computerized typesetting, industrial process control, and education are only a few points on the scale. The total picture reveals that DEC is a dominant force in most medium and small-computer markets, a leader in large-scale time-sharing applications, and also one of the largest suppliers of electronic circuit modules.

DEC's success comes from its aggressive development of products which answer specific applications' needs in a variety of industrial and scientific environments. The Company backs up this product mix with a number of services to make its equipment even more effective.

The following pages will give you an overview of Digital Equipment Corporation: Products and Services.







PDP 8/i and PDP-8/L — small, low-cost, full-scale computers — are built around the same 4,096-word, 12-bit core memory and fully-parallel central processor. The PDP-8/i is designed for those who need plug-in expansion. The PDP-8/L is designed for those who need a basic, general-purpose computer. The PDP-8's not only handle general-purpose tasks, but, by means of Computerpacks, do special-purpose jobs as well.

COMPUTERPACKS

Computerpacks are integrated, computer-based systems, with built-in software, interfacing, and special peripherals. The following are only some of the Computerpacks currently available for PDP-8 family machines.

The LAB-8 SIGNAL AVERAGING SYSTEM enables any PDP-8 to signal, calculate, and display the trend and variance of data, display blow-ups of areas of interest, and control the experiment.

TYPESET-8, the PDP-8 computerized typesetting system, takes unjustified and unhyphenated paper tape and converts it to justified, hyphenated tape for use with hot metal and photocomposition machines.

PHA-8 is a complete computer system for nuclear pulse height analysis. It can gather, store, display, and analyze energy or time-of-flight spectra, and record the results on a variety of output devices.

QUICKPOINT-8 prepares tapes for numerically-controlled, point-to-point machine tools.

INDAC-8 is a computerized, real-time system for acquiring and monitoring data. The SNAP feature allows the user to get a “snapshot” of his entire system, or any part of it, at any specific point in time.

TIMESHARED-8 is a multilanguage local time-sharing system offering simultaneous use to as many as 32 users. Along with the equipment comes a software language package that includes FORTRAN, BASIC, and FOCAL. Machine languages can also be used.

pdp12

The PDP-12 is successor to the LINC-8 and LINC, the first small, laboratory-oriented computers with built-in interactive graphics capability. Performance characteristics have been optimized around a complete 12-bit hardware/software system, and the cathode ray tube display allows interaction between operator and computer.

A PDP-12 Computerpack provides the clinical laboratory with an economical means of dealing with the problems of data collection, reduction, and analysis. Designed to be run in the hospital laboratory by existing personnel, the system monitors laboratory instruments, processes and analyzes data from them, provides a summary patient file, and produces easy-to-read reports.

In signal processing, the PDP-12 manipulates data through averaging, time interval measurements, frequency analysis, and correlation.

The hands-on, interactive concept of the PDP-12 makes it well-suited for computer-extended instruction in universities, junior colleges, and high schools.

In psychological and physiological research, the PDP-12 can control experiments, record events, and analyze results.

The PDP-12 can interpret and process data simultaneously from up to 15 analytical instruments. The turn-key system provides efficient patient monitoring and patient interviewing.





Since certain types of data handling tasks require specific hardware and software configurations, Digital has developed four medium-scale, 18-bit PDP-15 systems.

The PDP-15/10 is a basic system designed to let beginning users with limited budgets plan for later expansion.

PDP-15/20 is designed for research and engineering environments where real-time data acquisition and control tasks are combined with program development and testing.

PDP-15/30 is oriented toward research, engineering, and industrial environments where one or more real-time tasks typically require continuous responsiveness from the computer but do not use 100% of its capacity.

PDP-15/40 is designed for industrial and engineering environments where the need for a background/foreground mode of operation is compounded by the necessity of large random-access files.



In 1965, DEC introduced the first large-scale, commercially-available time-sharing system — the PDP-6. Its successor, the 36-bit PDP-10, is the price/performance leader in its field. Almost 100 PDP-10 class computers are in customer installations.

The PDP-10 is designed to perform conversational time-sharing, batch-processing (processing vast amounts of data with extreme rapidity), and real-time operations equally well and simultaneously.

In conversational time-sharing, up to 63 users at local or remote locations can simultaneously share a broad range of system capabilities. For programs that do not require immediate processing, a user may initiate batch-processing, and let the system software control a queue of card or tape jobs. Real-time operations would include data acquisition and control.

APPLICATIONS

Power, versatility, and low cost have made the PDP-10 a prime choice of the commercial time-sharing utilities. For the customers served by the utilities, the PDP-10 performs scientific data analysis, helps make better management decisions, aids in engineering and architectural design, demonstrates computer applications to high school classes, makes investment analyses, and provides management information services.

University computer centers use the PDP-10 to solve student and faculty computing problems, develop new programs, process administrative data, and provide computer-aided instruction.

In hybrid systems, the PDP-10 is combined with analog equipment to simulate the operation and/or control of complex systems. The PDP-10 interfaces easily with analog computers of all major manufacturers.

In chemical laboratories, the PDP-10 collects data from analytical equipment, makes component identifications and analyses, and builds chemical models.

High energy and nuclear physics laboratories use the PDP-10 for both on-line and off-line analysis of real-time experiments.

In biomedical research, the PDP-10 is useful for mathematical modeling and pattern recognition. In applied medicine, it has found uses in clinical chemistry, multiphasic screening centers, hospital information systems, and intensive care units.





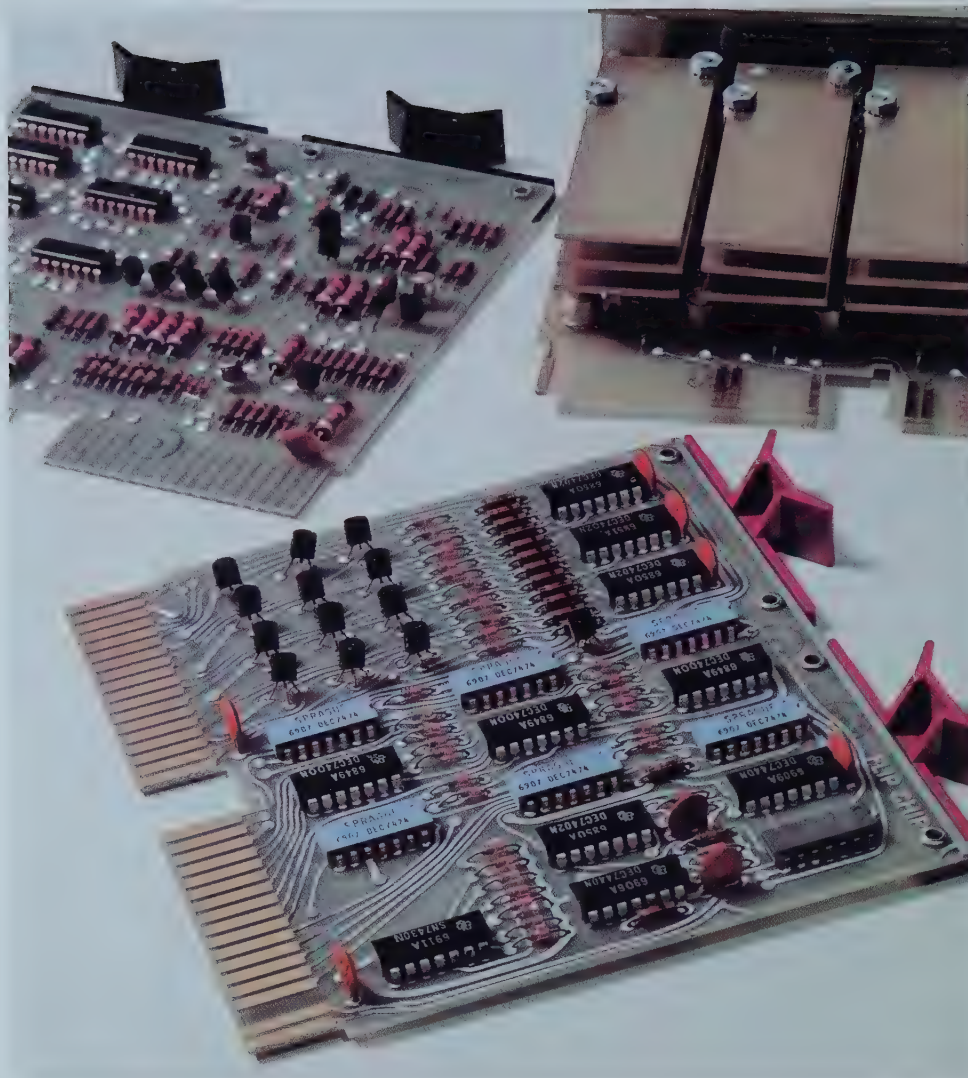
modules

DEC's logic modules — solid state, electronic circuit boards — are used extensively by manufacturers of other equipment, from machine tools to scientific instruments. DEC computers and associated equipment are also constructed from them.

DEC makes 324 different types of modules in three basic families:

- K-SERIES — for control applications in industrial environments requiring immunity to noise
- M-SERIES — for high-speed computer interfacing and instrumentation
- A-SERIES — analog-to-digital and digital-to-analog converters

The modules are used for interfacing other equipment to DEC computing systems, and for constructing a wide variety of laboratory equipment that need not be associated with the computing systems.





pdp14

DEC's 12-bit PDP-14 is a small, solid state replacement for electrical relays used in control of mass production machinery.

The PDP-14 will directly control machines such as automotive transfer lines, complex material handling systems, steel rolling mills, and elevator systems. The PDP-14 can also lead to a machine monitoring system where each 14 controls its own bank of machine tools and keeps a computer informed of its progress.



computer lab

DEC's Computer Lab is a complete classroom laboratory for teaching digital logic and computer fundamentals. The course provides a set of ten experiments illustrating the full range of digital logic principles. The student can follow each step of the Computer Lab instructions by wiring the unit with easily-inserted and removed patchcords, and then test his final design.

peripherals

DEC provides a complete line of peripherals and special interfacing to adapt its computers to specific customer requirements. These requirements are usually increased input/output capability, data communication, and information storage.

INPUT/OUTPUT

LINE PRINTERS — capable of printing alphanumeric data at speeds up to 1,000 lines/minute.

CARD READERS AND PUNCHES — read up to 1,000 punched cards/minute, punch up to 365 cards/minute.

PAPER TAPE EQUIPMENT — optically read prepunched paper tape at speeds up to 300 characters/second, punch data at 50 characters/second. Readers and punches for typesetting systems are available for handling 6 or 8 level codes at 110 characters/second.

TELETYPE EQUIPMENT — allows the operator to communicate with the computer by a typewriter-like device or with a paper tape reader or punch. Models are available with or without paper tape equipment at speeds of 100 or 150 words/minute.

CATHODE RAY TUBE DISPLAY SYSTEMS — television-like displays provide visual output of data in linear or circular strokes, point plot, relative or absolute vectors, or alphanumeric characters.

INCREMENTAL PLOTTERS — draw graphs in steps of .01 or .005 inches at a maximum width of 18 inches.

REAL-TIME INTERFACE EQUIPMENT — converts input signals from digital-to-analog or analog-to-digital. Special real-time systems are available for such purposes as signal averaging and gas chromatography.

DATA COMMUNICATION

Equipment is available in almost any configuration to allow communication between remote terminals and a central processor. Typical users are time-sharing service utilities, inventory control systems, message handling systems, and reservation systems (such as hotels and car rentals).

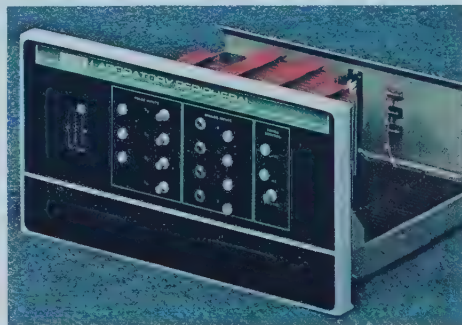
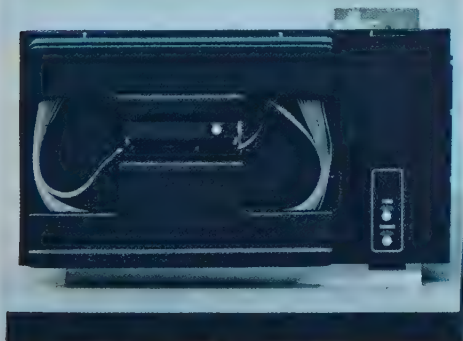
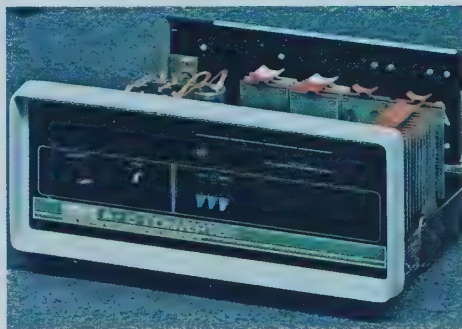
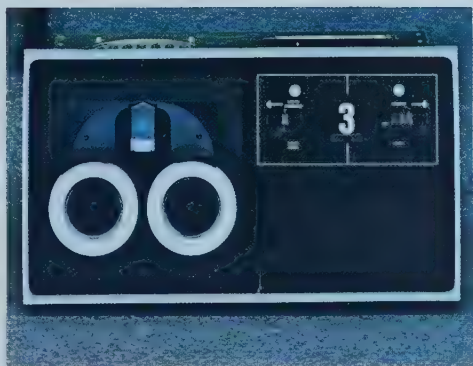
INFORMATION STORAGE

DISK SYSTEMS — magnetically read and write information on a rotating disk at capacities up to 100 million words.

STORAGE DRUMS — can magnetically read or write information on a rotating cylindrical drum. Storage capacities are available up to 524,000 18-bit words.

MAGNETIC TAPE UNITS — read or write information at speeds up to 75 inches/second and up to 800 bits/inch. Industrially compatible. Incremental tape drive is also available at 700 steps/second and up to 800 bits/inch.

DECTAPE — a unique development of Digital Equipment Corporation which features compact, four-inch diameter reels with a capacity of 73,964 words/reel.



dec supplies

DEC has a complete line of operating supplies, which includes DECtape, LINtape, and standard magnetic tape; paper tape; tape storage racks and accessories; printer paper and ribbons; and miscellaneous items.

computer special systems

The Computer Special Systems group is comprised of applications engineers, sales support personnel, project engineers, programmers, and manufacturing specialists. They interface DEC equipment to that of other manufacturers, design new logic to apply the computer to a particular problem or process, and make required modifications to any of DEC's existing products.

For many special applications, DEC has an experienced staff of systems programmers to develop custom software. In some cases, DEC programmers may be able to adapt parts of its standard system software into custom designs.

field service

A worldwide field service staff insures the proper maintenance of DEC machines. One of the Company's over 500 field service engineers can generally be at any location within a few hours if a problem develops, or a resident engineer can be located at a site full-time.

For small computer users, DEC also offers depot repair stations. Located at strategic service centers, each station is a complete service lab manned with full-time engineers and fully equipped with test equipment.

decus

Digital Equipment Computer Users Society (DECUS) is a voluntary, non-profit users group supported by DEC. Its 5,000 members from the U.S. and 32 foreign countries constitute one of the most active users groups in the world.

The Society publishes a newsletter, DECUSCOPE, every two months, sponsors technical symposia twice a year (Spring and Fall), maintains a program library, and publishes proceedings of its symposia.

DECUS encourages subgrouping of users with common interests. Special interest groups include European users, module users, the education subgroup, users in the biomedical field, PDP-6/10 users, and local user groups.

The DECUS Program Library contains programs which are contributed by the users and made available to members without charge.

the dec training program

The Company offers the DEC Training Program to every organization purchasing a computer. A trained, full-time staff regularly conducts courses at DEC's main plant in Maynard, Massachusetts.

With the exception of the Basic Programming Course, all courses are designed to teach experienced computer personnel how to program or maintain their computer. The courses assume prior knowledge of basic programming or basic electronics, and computer technology.

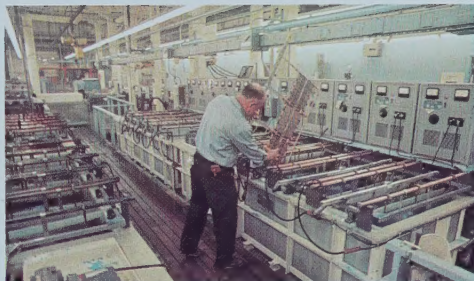
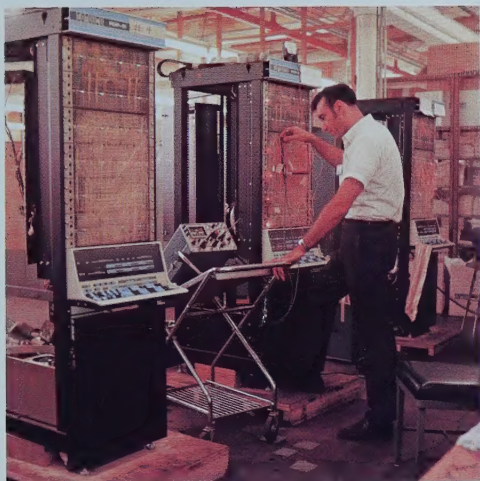


manufacturing

Efficient manufacturing processes play a large part in Digital's growth story. DEC uses over 200 computers internally to control manufacturing processes, run production equipment, and measure incoming and outgoing quality. The proportion of computers used for in-house purposes is one of the highest in the industry.

A PDP-12 undergoes final systems check-out. The PDP-12, a faster, more powerful, and less expensive successor to the LINC-8, has a graphics display through which the machine and operator can communicate.





Preliminary check-out on a PDP-15 is controlled from a central computer station. DEC has developed four standard PDP-15 systems, ranging from the basic PDP-15/10 to the real-time disk monitor environment of the PDP-15/40.

The integrated circuit tester is controlled by a PDP-7, and is in operation over 14 hours a day. The tester was fabricated within Purchasing, a department which includes component engineering, and receiving inspection.

DEC's printed circuit manufacturing capacity was substantially increased with additions to the large, modern plated-through-hole facility for the production of high-density, double-sided circuit boards.

DEC assembles over 2,000,000 modules a year. The modules are assembled and tested by highly-automated facilities controlled by PDP-4, 7, 8, and 9 computers.

digital is worldwide

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